**Anqi Yu**

900 University Ave, Riverside, CA 92551

951-318-8718 ayu030@ucr.edu

**Research Interests and Summary**

Currently performing graduate research under the guidance of Professor. Suveen Mathaudhu at the University of California, Riverside in the field of metallic materials, focusing on metastable microstructure and processing. Thesis focus on relationship between microstructure and mechanical properties of novel binary alloys (bioresorbable Fe-Mn alloys and microstructurally stable Cu-Ta alloys.)

**Education**

**University of California Riverside, Riverside, CA, 09/19/2016-Now**

*Ph.D. in Materials Science and Engineering - GPA 3.95*

**University of California Riverside Extension, Riverside, CA, Program date: 07/30/2015-06/17//2016**

*Visiting student in Graduate Preparation Program (GPP-E) in University of California, Riverside – GPA 3.54*

**Zhejiang University of Technology, Zhejiang, China, 09/01/2012-06/31/2016**

*B.S. in Materials Sciences and Engineering with a focus on Polymers – Major GPA 3.65*

० Certificate of the joint course program in *Cross-Cultural Engineering Problem Solving* organized by Zhejiang University of Technology and Wayne State University

**Publications**

**In Preparation**

*Anqi Yu, Christian Roach, Sina Shahrezaei, David Johnson, Lia Stanciu, Suveen Mathaudhu* **Microhardness and Microstructural Evolution in Nanocrystalline Fe-30wt.%Mn during High Pressure Torsion**

A*nqi Yu, Lia Stanciu, Suveen Mathaudhu* **Surface Modification through Mechanical Alloying and Spark Plasma Sintering of Fe-30wt.%Mn Alloys to Create Tailorable, Nanoporous, Bioresorbable Surfaces**

**Contributed Presentations**

**TMS 2017(Poster), 02/26/2017-03/02/2017**, San Diego, California (poster Presentation) "Microstructure and Mechanical Behavior of Nanostructured Fe-Mn Bioresorbable Alloy"

**2017 Nano and Heterogeneous Materials Workshop (Presentation), 06/20/2017-06/22/2017**, Nanjing, China, “Mechanical Properties of Nanocrystalline Bioresorbable Fe-30wt%Mn Alloys”

**TMS 2018 (Presentation), 03/11/2018-03/15/2018**, Phoenix, Arizona, “Mechanical Properties of Nanocrystalline Bioresorbable Fe-30wt%Mn Alloy”

**AIST Chapter Meeting 2018 (Presentation), 04/26/2018**, Fontana, CA, “Mechanical properties of nanocrystalline bioresorbable Fe-Mn alloy”

**NSF Director Grad Seminar (Presentation), 01/06/2018**, Riverside, CA, “Fundamental Investigation of Fatigue Crack Growth Mechanism in Microstructurally-Stable Nanocrystalline Alloys”

**UCR MSE Colloquium (Presentation), 04/24/2019**, Riverside, CA, “Thermal Stability of Cu-Ta Alloys Fabricated by Cryomilling and Spark Plasma Sintering”

**UCR MEGSA Symposium (Poster), 05/31/2019**, Riverside, CA, “Thermal Stability of Cu-Ta Alloys Fabricated by Cryomilling and Spark Plasma Sintering”

**Powdermet 2019 (Poster and Presentation), 06/23/2019-06/26/2019,** Phoenix, AZ, “Thermal Stability of Cu-Ta Alloys Fabricated by Cryomilling and Spark Plasma Sintering”

**Gordon Research Seminar (Poster), 07/06/2019-07/07/2019**, Manchester, NH, “Thermal Stability of Cu-Ta Alloys Fabricated by Cryomilling and Spark Plasma Sintering”

**Gordon Research Conference (Poster), 07/07/2019-07/12/2019**, Manchester, NH, “Thermal Stability of Cu-Ta Alloys Fabricated by Cryomilling and Spark Plasma Sintering”

**Honors and Awards**

Grad Slam, 04/23/2018, Riverside, CA, “Mechanical properties of nanocrystalline bioresorbable Fe-Mn alloy” (Audience Choice Winner).

The International Student Leadership Award at UCR, 05/29/2018, UCR, CA

National Science Foundation 2019 Grant Recipient, 06/26/2019, United States

First Prize of CIE-SOCAL presentation competition, 09/07/2019, CA

NSF Student Grant for POWDERMET2019, 06/23/2019, Phoenix, Arizona

**Technical Skills**

**Production and sample preparation methods**

Polish, High Energy Ball Milling, Glovebox Processing, Powder Processing, Die Pressing, Spark Plasma Sintering

**Advanced chemical and microstructural characterization**

Scanning Electron Microscopy (SEM), transmission electron microscopy (TEM), energy dispersive spectroscopy (EDS), focused ion beam (FIB), x-ray diffractometry (XRD)

**Software**

Origin, ImageJ, HighScore

**Volunteers**

STEM Science Fair Expo, 10/29/2016, Riverside, CA

Bourns Engineering Day, 04/29/2017, UCR, CA

2017 UCR Homecoming activities, 11/15/2017, BOCE in UCR, CA

Moreno Valley Unified School District Science & Engineering Fair, 02/07/2019, Bridge Learning Center in Moreno Valley, CA

International Women’s Day Video, 03/08/2019, UCR, CA

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| **Visitor Information Required** |
| Last Name (Surname)Yu | First NameAnqi  | Middle Name or NMN (no middle name) NMN |
| List all science and technology specialties that apply to your experience (e.g., materials sciences, battery technology, geosciences, fuel elements, waste management, etc.): **Production and sample preparation methods**Polish, High Energy Ball Milling, Glovebox Processing, Powder Processing, Die Pressing, Spark Plasma Sintering**Advanced chemical and microstructural characterization**Scanning Electron Microscopy (SEM), transmission electron microscopy (TEM), energy dispersive spectroscopy (EDS), focused ion beam (FIB), x-ray diffractometry (XRD), Nanovea Indentation tester**Software**Origin, ImageJ, HighScore,  |
| List dates in chronological order as MM/YYYY for all work positions and all academic institutions attended (from age 18). Include the city, state/province, and country for each entry**. If there is more than a 4-month gap between entries, provide a brief explanation why there was no work or academic institution attended.**09/2008-07/2012, Fuynag High School, Hangzhou, Zhejiang, China09/2012-07/2016, Zhejiang University of Technology, Hangzhou, Zhejiang, China07/2015-06/2016, University of California, Riverside, (Visiting student), Riverside, CA, the United States09/2016-now, University of California, Riverside, Riverside, CA, the United States |